

Specifications for Plastic Optical Fiber

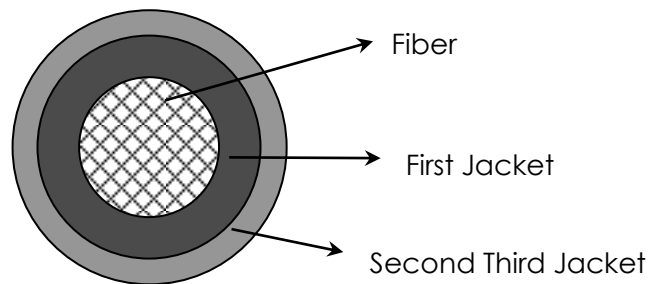
Multicore POF™ SHMCSN-1000P-18-22PF(EB)

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Plastic Optical Fiber
Marketing & Development Gr

1, STRUCTURE

ITEM	UNIT	Specifications
Core Material		PMMA
Clad Material		Fluorinated Polymer
Core reflective index		1.49
Reflective index Profile		Step index
Fiber Diameter	μm	1000 ± 60
Core Number		217
NA		0.6
First Jacket Material		PA12
First Jacket Diameter	μm	1800 ± 70
First Jacket Color		Black
Second Jacket Material		Special Fluorinated Resin (PFA)
Second Jacket Color		Black
Third Jacket Material		Special Fluorinated Resin (PFA)
Second Jacket Diameter	μm	2200 ± 70
Third Jacket Color		Black
Approx. weight	g/m	5.5



2, PROPERTIES

ITEM	UNIT	Specifications	
Storage Temperature Range	°C	-55 ~ 105	*1
Application Temperature Range	°C	-55 ~ 105	
Attenuation	dB/km	≤ 600	*2
Tensile Strength at Break Point	N	≥ 160	*3
Minimum Bending Radius	mm	2	*4

Sample conditions

Temperature: T = 23°C
Humidity: RH = 50%
Storage time: t = 200h

*1 : 105°C, 1000h, Attenuation < 0.5dB/m

*2 : Light Source : LED (Peak Wavelength = 657nm), 20-2m Cut-back Method

*3 : Interval between grippers = 100 mm, Tensile Speed = 100mm/min

*4 : L = 2m, 90 degree bending at the middle of fiber

Light Source : LED (Peak Wavelength = 657nm), Transmission Rate ≥ 90%

3, RoHS certification

The product does not contain RoHS 2 hazardous substances, Cadmium, Lead, Mercury, Chromium (VI), PBB, PBDE, DIBP, DEHP, DBP and BBP intentionally.